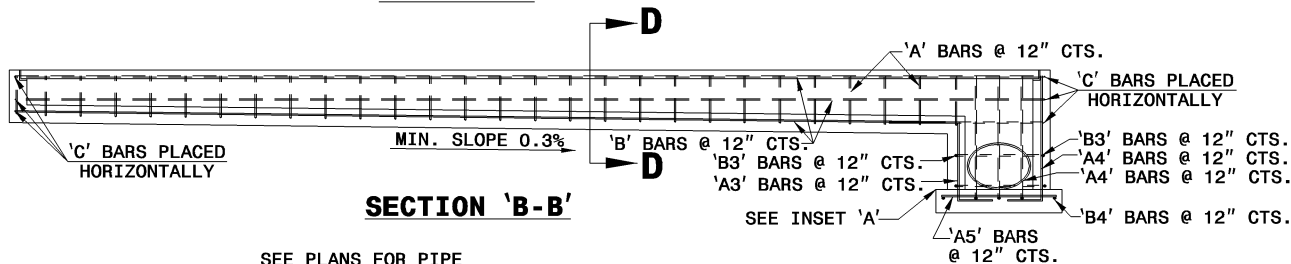
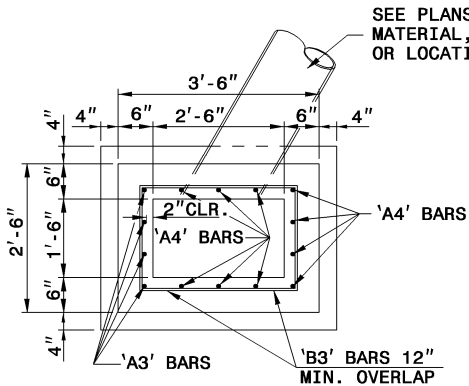


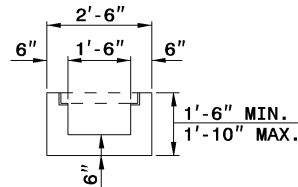
PLAN VIEW



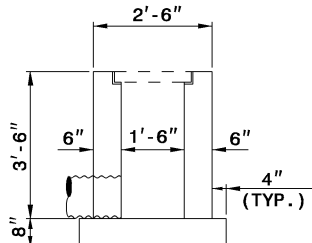
SECTION 'B-B'



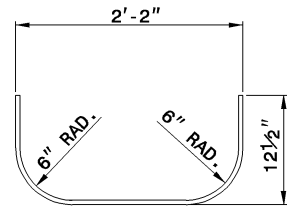
INSET 'A'



SECTION 'A-A'



SECTION 'C-C'



SECTION 'D-D'

GENERAL NOTES:

ALL MASONRY COMPONENTS OF THIS DRAINAGE DEVICE (EXCLUDING PIPE) ARE TO BE CONSTRUCTED WITH CLASS 'B' CONCRETE AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR MASONRY DRAINAGE STRUCTURES.

* PAY FOR THE GRATE AND FRAME FOR THE DRIVEWAY DROP INLET AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR GRATE WITH FRAME, DRIVEWAY DROP INLET. FABRICATE THE GRATE SECTION(S) TO FIT THE OPENING INDICATED IN THE PLANS.

THE CONTRACTOR MAY, AT HIS OPTION, SHORTEN LENGTHS FOR BARS 'B' AND LAP THEM TO OBTAIN THE PROPER LENGTH OF BARS. DO NOT OVERLAP BARS LESS THAN 1'-6" LONG.

INCLUDE THE COST OF ALL REINFORCING STEEL IN THE CONTRACT UNIT PRICE PER EACH FOR MASONRY DRAINAGE STRUCTURES.

DESIGN THE GRATES TO MEET HS-20 LOADING.

PROVIDE GRATES WITH A MINIMUM CLEAR WATERWAY OPENING OF 50in² PER 1'-0" LENGTH OF GRATE.

ADDITIONAL PER LINEAR FOOT QUANTITIES MAY BE USED TO ADJUST QUANTITIES FOR LENGTH INCREASE OR DECREASE AS INDICATED BY THE PLANS (SEE CHART BELOW).

BILL OF MATERIAL

QUANTITIES BASED ON 30' GRATE LENGTH				
BAR	NO.	SIZE	LENGTH	WEIGHT
A	28	5	3'-11"	114.4
A3	4	5	5'-8"	23.6
A4	10	5	5'-0"	52.2
A5	4	5	3'-10"	16.0
B	7	5	30'-0"	219.0
B3	6	5	6'-0"	37.5
B4	5	5	2'-10"	14.8
C	6	5	2'-0"	12.5
TOTAL REINF. STEEL lbs.				490.0
CLASS 'B' CONC. cu. yds.				3.30
ADDITIONAL CONCRETE PER FT. IN CU. YDS. OVER 3'-6"				0.22
PER LINEAR FOOT QUANTITY ADJUSTMENTS FOR DRAINAGE STRUCTURES DEVIATING FROM THE 30' GRATE LENGTH				
A	1	5	3'-11"	4.1
B	7	5	1'-0"	7.3
CLASS 'B' CONC. cu. yds.				0.10